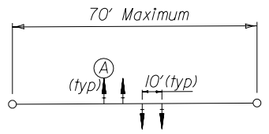
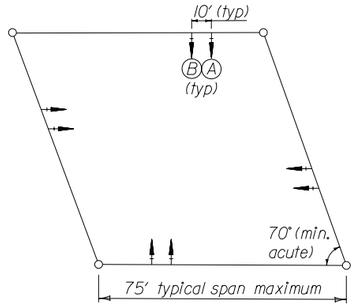
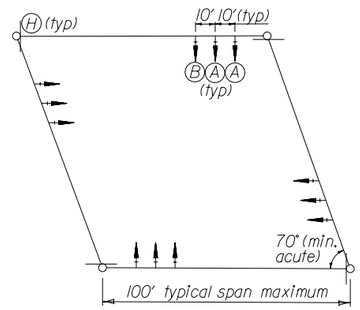


25' MAXIMUM SPAN WIRE ATTACHMENT HEIGHT

POLE TYPE SW1

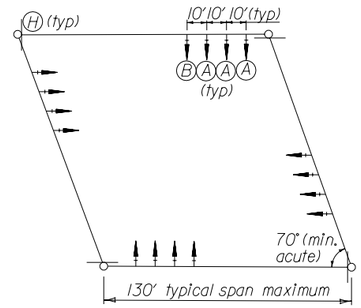


25' MAXIMUM SPAN WIRE ATTACHMENT HEIGHT



26'-6" MAXIMUM SPAN WIRE ATTACHMENT HEIGHT

POLE TYPE SW2



28' MAXIMUM SPAN WIRE ATTACHMENT HEIGHT

POLE TYPE SW3

DEVICE	SIGNAL	DESCRIPTION	PROJECTED AREA SQ FT	WEIGHT POUNDS
A	TS-1, T31 TS-IL, T32 TS-IR, T33	12" 3 section polycarbonate with backplate	8.67	40
B	TS-ILL, T51B TS-IRR, T52B	12" 5 section polycarbonate with backplate	13.33	55
C	TS-ILL, T51 TS-IRR, T52	12" 5 section polycarbonate with backplate mounted on side of pole	13.33	55
D	PS-1, P13	12" 1 section polycarbonate on side of pole	1.56	30
E	SIGN	aluminum variable message sign on span	7.0	30
F	SIGN	street name sign located on the far right of the intersection side of pole	27.00	60

DESIGN CRITERIA:

1) Loading and allowable stress criteria: 80 mph as per current AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals".

2) All structures are designed to support the maximum loading shown with a span wire sag of 5% and tether wires that break away at a maximum load of 900 lbs.

3) The traffic signals and signs shown may be placed at any location on the span wire, provided that the minimum spacing shown is maintained.

4) All structures are designed to support a 15' maximum length luminaire arm at 40' maximum luminaire mounting height, while supporting a luminaire having a maximum projected area of 3.3 square feet and a maximum weight of 75 pounds.

LIN POLE SERIES LOADING INFORMATION

GENERAL NOTES:

1) Each pole shaft shall be furnished with all miscellaneous hardware necessary to complete the installation, except pole bands to be furnished by others.

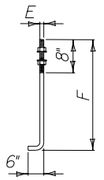
2) The pole shaft shall be galvanized to comply with ASTM-123.

3) The miscellaneous hardware shall be galvanized to comply with ASTM-153.

4) A letter of certification from the manufacturer, stamped by a professional engineer, shall be submitted certifying compliance to these specifications, along with shop drawings and if requested calculations for verification of compliance.

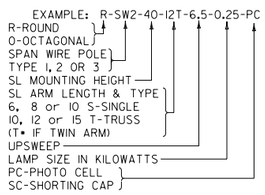
POLE SERIES	POLE TYPE	LUM. MOUNT HEIGHT	LENGTH (taper 0.14"/ft)	BOLT CIRCLE B	BOLT DIA. E	BOLT LENGTH F
LIN	SW1	NA	26'-6"	17"	1.5"	4'-6"
LIN	SW1	30'	27'-6"	17"	1.5"	4'-6"
LIN	SW1	35'	32'-6"	17"	1.5"	4'-6"
LIN	SW1	40'	37'-6"	17"	1.5"	4'-6"
LIN	SW2	NA	27'-6"	17"	1.5"	4'-6"
LIN	SW2	30'	27'-6"	17"	1.5"	4'-6"
LIN	SW2	35'	32'-6"	17"	1.5"	4'-6"
LIN	SW2	40'	37'-6"	17"	1.5"	4'-6"
LIN	SW3	NA	29'-6"	18"	1.75"	7'
LIN	SW3	35'	32'-6"	18"	1.75"	7'
LIN	SW3	40'	37'-6"	18"	1.75"	7'

PROFESSIONAL CIVIL ENGINEER
ROGER A. FIGARD
E-4507
STATE OF NEBRASKA



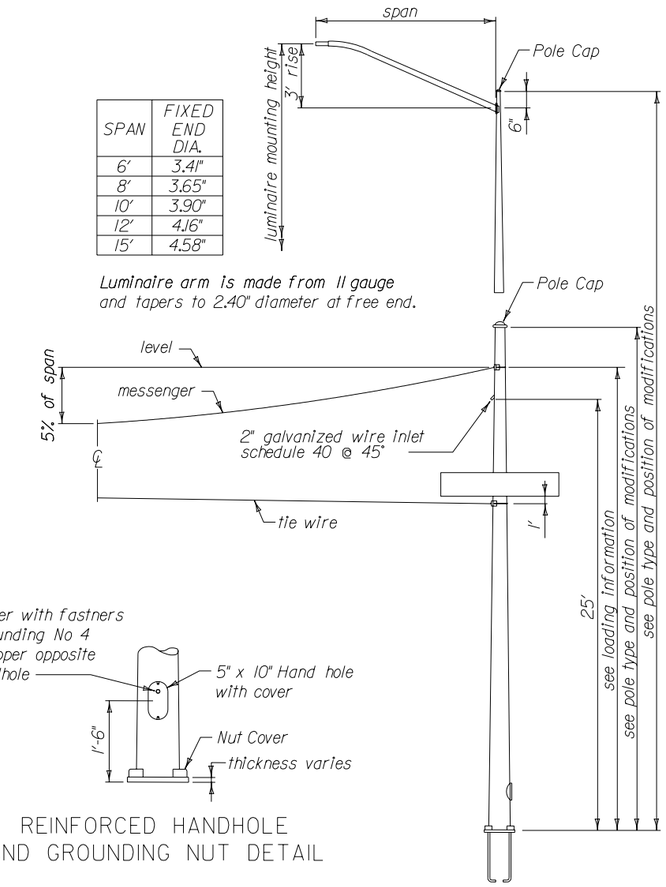
ANCHOR BOLTS

(4) Anchor bolts with (2) hex nuts and (2) washers per bolt with threaded end galvanized at least 12"

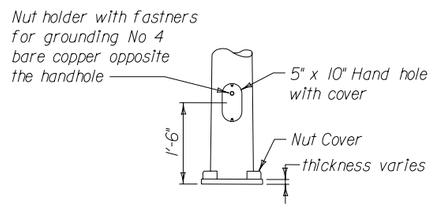


SPAN	FIXED END DIA.
6'	3.41"
8'	3.65"
10'	3.90"
12'	4.16"
15'	4.58"

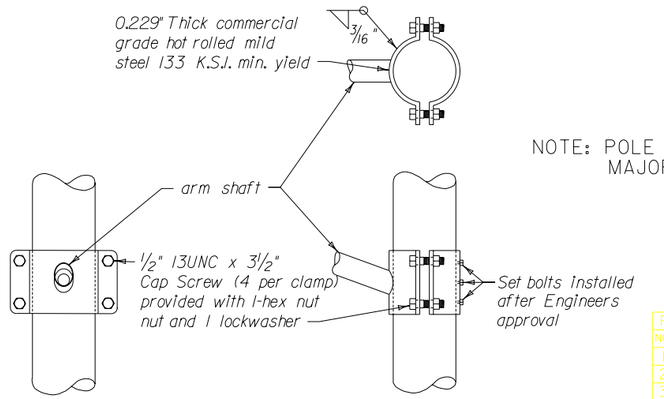
Luminaire arm is made from 11 gauge and tapers to 2.40" diameter at free end.



LIN POLE SERIES



REINFORCED HANDHOLE AND GROUNDING NUT DETAIL



CLAMP ON LUMINAIRE ARM

NOTE: POLE MANUFACTURER TO STAMP ALL MAJOR COMPONENTS WITH POLE NUMBER

REVISIONS		
NO.	BY	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

SPAN WIRE POLES, MANUFACTURES DETAILS

CITY OF LINCOLN, NEBRASKA
OFFICE OF THE CITY ENGINEER

Date: 4-03 / CAW Scale: None

No. Sheets: 1 PLAN NO. L.S.P. 86 Sheet No. 1